

5'	9	18	27	36	45	54
A	AGG GGC GCT GCC AGC CTC CGG GCC TCA GGG TGT TCC GGG GAG CGG CGC					
	63	72	81	90	99	108
CCC GGG TCT CTG GGC CCA CCC GGC GGC CTC CGA GAG TGG GGG CTG CGC						
	117	126	135	144	153	162
CCG CCG GGT CAG ACA CCT GTT CGG CCC GGC CCG TGG TCG CCG GGG GCC AGG						
	171	180	189	198	207	216
ATG AAA GTG ACC GTG TGC TTC GGC AGG ACG GGC ATC GTG GTG CCC TGC AAG GAG						
M K V T V C F G R T G I V V P C K E						
	225	234	243	252	261	270
GGC CAG CTG CGC GTC GGC GAG CAG CAG CAG CTC ACC CAG CTG CAG CGG TAC CTG AAG						
G Q L R V G E L T Q Q A L Q R Y L K						
	279	288	297	306	315	324
ACC CGG GAG AAG GGT CCT GGT TAC TGG GTG AAG ATT CAT CAC TTA GAA TAT ACA						
T R E K G P G Y W V K I H H L E Y T						

FIGURE 1A

333	GAT	GGA	GGA	ATC	CTG	GAT	CCA	GAT	GAT	GTC	TTG	GCA	GAT	GTT	GTT	GAA	GAT	AAA	378
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	D	G	G	I	L	D	P	D	D	V	L	A	D	V	V	E	D	K	
387	GAC	AAG	CTG	ATT	GCT	GTG	TTT	GAA	GAA	CAA	GAA	CCA	CTC	CAC	AAG	ATT	GAG	AGC	432
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	D	K	L	I	A	V	F	E	E	Q	E	P	L	H	K	I	E	S	
441	CCC	AGT	GGA	AAC	CCT	GCA	GAT	CGG	CAG	AGC	CCA	GAT	GCT	TTT	GAG	ACA	GAA	GTG	486
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	P	S	G	N	P	A	D	R	Q	S	P	D	A	F	E	T	E	V	
495	GCC	GCC	CAA	CTG	GCT	GCA	TTT	AAG	CCA	ATT	GGT	GGG	GAG	ATT	GAA	GTA	ACC	CCT	540
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	A	A	Q	L	A	A	F	K	P	I	G	G	E	I	E	V	T	P	
549	TCT	GCT	CTA	AAA	CTA	GGC	ACT	CCA	CTG	CTG	GTG	AGG	AGA	AGC	AGT	GAC	CCA	GTG	594
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S	A	L	K	L	G	T	P	L	L	V	R	R	S	S	D	P	V	

FIGURE 1B

603	612	621	630	639	648
CCA GGC CCA CCT GCT GAT ACC CAG CCA AGC GCT TCA CAC CCT GGT GGC CAG AGT					
P G P P A D T Q P S A S H P G Q S					
657	666	675	684	693	702
CTG AAA CTG GTT GTT CCA GAT TCC ACG CAG AAC TTG GAA GAC AGA GAA GTT TTG					
L K L V V P D S T Q N L E D R E V L					
711	720	729	738	747	756
AAT GGT GTA CAG ACA GAA CTA CTA ACT TCG CCA AGA ACT AAG GAC ACA TTG AGT					
N G V Q T E L L T S P R T K D T L S					
765	774	783	792	801	810
GAT ATG ACA AGA ACA GTG GAG ATT TCT GGG GAA GGA GGC CCA TTG GGA ATA CAT					
D M T R T V E I S G E G G P L G I H					
819	828	837	846	855	864
GTA GTG CCC TTC TTT TCA TCT CTG AGT GGA AGG ATT CTA GGA CTC TTC ATC CGA					
V V P F F S S S L S G R I L G L F I R					

FIGURE 1C

873	GGC	ATT	GAA	GAC	AAC	AGC	AGG	TCC	AAG	CGG	GAG	GGA	CTA	TTT	CAC	GAA	AAT	GAA	918
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	G	I	E	D	N	S	R	S	K	R	E	G	L	F	H	E	N	E	
927	TGT	ATT	GTA	AAA	ATC	AAC	AAT	GTG	GAT	CTC	GTA	GAC	AAA	ACC	TTT	GCT	CAG	GCT	972
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	C	I	V	K	I	N	N	V	D	L	V	D	K	T	F	A	Q	A	
981	CAA	GAT	GTC	TTC	CGC	CAG	GCA	ATG	AAA	TCT	CCA	AGT	GTG	CTC	CTC	CAC	GTG	CTT	1026
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Q	D	V	F	R	Q	A	M	K	S	P	S	V	L	L	H	V	L	
1035	CCT	CCA	CAA	AAC	CGT	GAA	CAG	TAT	GAA	AAG	TCA	GTC	ATT	GGC	TCT	CTT	AAC	ATT	1080
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	P	P	Q	N	R	E	Q	Y	E	K	S	V	I	G	S	L	N	I	
1089	TTT	GGT	AAT	AAT	GAT	GGC	GTT	TTG	AAA	ACC	AAA	GTG	CCG	CCT	CCT	GTC	CAT	GGA	1134
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	F	G	N	N	D	G	V	L	K	T	K	V	P	P	P	V	H	G	

FIGURE 1D

1143	1152	1161	1170	1179	1188
AAA TCG GGA CTA AAG ACA GCA AAT CTC ACA GGA ACC GAT AGT CCT GAA ACA GAT					
---	---	---	---	---	---
K S G L K T A N L T G T D S P E T D					
1197	1206	1215	1224	1233	1242
GCA TCA GCT TCC CTG CAA CAA AAC AAG AGT CCC CGA GTA CCA AGG CTG GGA GGA					
---	---	---	---	---	---
A S A S L L Q Q N K S P R V P R L G G					
1251	1260	1269	1278	1287	1296
AAA CCA TCC TCT CCC TCA CTC CTC CCT TCG CCT CTC ATG GGA TTT GGC AGC AAT AAA AAT					
---	---	---	---	---	---
K P S S P S L S P L S P L M G F G S N K N					
1305	1314	1323	1332	1341	1350
GCA AAG AAA ATT AAG ATT GAC CTA AAG AAA GGC CCT GAA GGA CTT GGT TTC ACT					
---	---	---	---	---	---
A K K I K I D L K K K G P E G L G F T					
1359	1368	1377	1386	1395	1404
GTG GTT ACC AGA GAC TCT TCC ATA CAT GGT CCC GGT CCC ATT TTT GTA AAA AAC					
---	---	---	---	---	---
V V T R D S S I H G P G P I F V K N					

FIGURE 1E

1413	1422	1431	1440	1449	1458
ATT TTA CCA AAG GGA GCA GCA ATA AAA GAT GGC CGC CTA CAA TCA GGG GAC AGA					
---	---	---	---	---	---
I L P K G A A I K D G R L Q S G D R					
1467	1476	1485	1494	1503	1512
ATT TTG GAG GTA AAT GGG AGA GAT GTC ACC GGA CGA ACC CAG GAA GAG CTT GTG					
---	---	---	---	---	---
I L E V N G R D V T G R T Q E L V					
1521	1530	1539	1548	1557	1566
GCC ATG CTC AGG AGC ACC AAG CAG GGG GAG ACA GCA TCG CTG GTC ATT GCC CGC					
---	---	---	---	---	---
A M L R S T K Q G E T A S L V I A R					
1575	1584	1593	1602	1611	1620
CAA GAA GGA CAT TTT CTG CCC CGA GAG TTG AAA GGA GAA CCT GAC TGC TGT GCA					
---	---	---	---	---	---
Q E G H F L P R E L K G E P D C C A					
1629	1638	1647	1656	1665	1674
CTC TCT CTG GAG ACA AGC GAG CAG CTC ACC TTT GAG ATC CCC CTG AAT GAT TCA					
---	---	---	---	---	---
L S L E T S E E Q L T F E I P L N D S					

FIGURE 1F

1683	1692	1701	1710	1719	1728
GGT TCT GCT GGC CTC GGG GTG AGC TTA AAA GGG AAC AAA TCC AGA GAA ACT GGA					
---	---	---	---	---	---
G S A G L G G V S L K G N K S R E T G					
1737	1746	1755	1764	1773	1782
ACA GAC TTG GGG ATT TTT ATC AAA TCC ATC ATT CAT GGA GGC GCT GCT TTT AAG					
---	---	---	---	---	---
T D L G I F I I K S I I H G G A A F K					
1791	1800	1809	1818	1827	1836
GAT GGT CGT CTG CGA ATG AAT GAC CAG CTG ATT GCA GTT AAT GGG GAA TCT CTT					
---	---	---	---	---	---
D G R L R M N D Q L I A V N G E S L					
1845	1854	1863	1872	1881	1890
TTG GGA AAG TCC AAC CAC GAA GCT ATG GAA ACA CTT AGG CGG CCA ATG TCC ATG					
---	---	---	---	---	---
L G K S N H E A M E T L R R P M S M					
1899	1908	1917	1926	1935	1944
GAG GGA AAC ATC CGA GGG ATG ATC CAG TTG GTG ATT CTG AGG AGG CCA GAG AGA					
---	---	---	---	---	---
E G N I R G M I Q L L V I L R R P E R					

FIGURE 1G

1953	1962	1971	1980	1989	1998
CCA ATG GAG GAT CCT GCA GAG TGT GGG GCA TTT TCC AAG CCA TGC TTT GAG AAC					
P M E D P A E C G A F S K P C F E N					
2007	2016	2025	2034	2043	2052
TGT CAA AAT GCT GTA ACC ACC TCT AGG CGA AAT GAT AAT AGT ATC CTG CAT CCA					
C Q N A V T T S R R N D N S I L H P					
2061	2070	2079	2088	2097	2106
CTT GGC ACT TGC AGT CCA CAA GAC AAA CAG AAA GGT CTA TTG CTG CCC AAT GAC					
L G T C S P Q D K Q K G L L L P N D					
2115	2124	2133	2142	2151	2160
GGA TGG GCC GAG AGT GAA GTT CCA CCT TCT CCA ACA CCA CAT TCT GCT CTG GGA					
G W A E S E V P P S P T P H S A L G					
2169	2178	2187	2196	2205	2214
TTG GGC CTC GAA GAT TAC AGC CAC AGC TCT GGG GTG GAT TCA GCA GTA TAT TTT					
L G L E D Y S H S S G G V D S A V Y F					

FIGURE 1H

2223	2232	2241	2250	2259	2268
CCA GAT CAG CAC ATC AAC TTC AGA TCT GTG ACA CCG GCC AGG CAG CCT GAA TCA					
---	---	---	---	---	---
P D Q H I N F R S V T P A R Q P E S					
2277	2286	2295	2304	2313	2322
ATT AAT TTG AAA GCC TCG AAG AGC ATG GAC CTT GTG CCA GAT GAA AGC AAG GTT					
---	---	---	---	---	---
I N L K A S K S M D L V P D E S K V					
2331	2340	2349	2358	2367	2376
CAC TCA TTG GCT GGA CAA AAA TCG GAA TCT CCA AGC AAA GAT TTT GGT CCA ACT					
---	---	---	---	---	---
H S L A G Q K S E S P S K D F G P T					
2385	2394	2403	2412	2421	2430
CTG GGT TTG AAA AAG TCC AGC TCC TTG GAG AGT CTG CAG ACT GCA GTG GCC GAG					
---	---	---	---	---	---
L G L K K S S S L E S L Q T A V A E					
2439	2448	2457	2466	2475	2484
GTC AGG AAG AAT GAC CTT CCC TTT CAC AGG CCC CGG CCG CAC ATG GTT CGA GGC					
---	---	---	---	---	---
V R K N D L P F H R R P P R P H M V R G					

FIGURE 1I

2493	CGA GGC TGC AAT GAG AGC TTT AGA GCA GCC ATT GAC AAA TCC TAC GAT GGA CCT	2502	2511	2520	2529	2538
---	---	---	---	---	---	---
R G C N E S F R A A I D K S Y D G P						
2547	GAA GAA ATA GAA GCT GAC GGT CTG TCT GAT AAG AGC TCT CAC TCT GGC CAA GGA	2556	2565	2574	2583	2592
---	---	---	---	---	---	---
E E I E A D G L S D K S S H S G Q G						
2601	GCT CTG AAT TGT GAG TCT GCC CCT CAG GGG AAT TCG GAG CTA GAG GAC ATG GAA	2610	2619	2628	2637	2646
---	---	---	---	---	---	---
A L N C E S A P Q G N S E L E D M E						
2655	AAT AAA GCC AGG AAA GTC AAA AAA ACG AAA GAG AAG GAG AAG AAA AAG GAA AAG	2664	2673	2682	2691	2700
---	---	---	---	---	---	---
N K A R K K V K K T K E K E K K E K						
2709	GGC AAA TTG AAA GTC AAG GAG AAA AAG CGC AAA GAG GAG AAT GAA GAT CCA GAA	2718	2727	2736	2745	2754
---	---	---	---	---	---	---
G K L K K V K E K K K R R E E E N E D P E						

FIGURE 1J

2763	2772	2781	2790	2799	2808
AGG AAA ATA AAG AAG AAG GGC TTC GGC GCC ATG CTG AGG TAT GGG CCT GCT TTG					
---	---	---	---	---	---
R K I K K K K G F G A M L R Y G P A L					
2817	2826	2835	2844	2853	2862
AAG GCA AAG TTG GTT CTC ATT TTG TCT CTC CTG AAA AAA GCG CAC GCT TTT CCT					
---	---	---	---	---	---
K A K L V L I L S L L K K A H A F P					
2871	2880	2889	2898	2907	2916
CGT CTT CAG CCA AAT GCA TAC GGC TCT CAA TTC TGT GCT CGT TCT CTT TCT GCA					
---	---	---	---	---	---
R L Q P N A Y G S Q F C A R S L S A					
2925	2934	2943	2952	2961	2970
GAG GCA GAG GAG CTT TTT GGG GAA AGT TAC AGT GAT GAC AGG ACA CTG TCT TAA 3'					
---	---	---	---	---	---
E A E E L F G G E S Y S D D R T L S					

FIGURE 1K

[illegible]

FIGURE 2A

279	ACC	AGT	GCC	AGT	TCC	ACG	GGT	ACC	CAG	AGC	CCA	GAG	ATA	TTT	GGT	AGT	GAG	CTT	324
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	T	S	A	S	S	T	G	T	Q	S	P	E	I	F	G	S	E	L	
333	GGC	ACC	AAC	AAT	GTC	TCA	GCC	TTT	CAG	CCT	TAC	CAA	GCA	ACA	AGT	GAA	ATT	GAG	378
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G	T	N	N	V	S	A	F	Q	P	Y	Q	A	T	S	E	I	E	
387	GTC	ACA	CCT	TCA	GTC	CTT	CGA	GCA	AAT	ATG	CCT	CTT	CAT	GTT	CGA	CGC	AGT	AGT	432
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	V	T	P	S	V	L	R	A	N	M	P	L	H	V	R	R	S	S	
441	GAC	CCA	GCT	CTA	ATT	GGC	CTC	TCC	ACT	TCT	GTC	AGT	GAT	AGT	AAT	TTT	TCC	TCT	486
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	D	P	A	L	I	G	L	S	T	S	V	S	D	S	N	F	S	S	
495	GAA	GAG	CCT	TCA	AGG	AAA	AAT	CCC	ACA	CGC	TGG	TCA	ACA	ACA	GCT	GGC	TTC	CTC	540
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	E	E	P	S	R	K	N	P	T	R	W	S	T	T	A	G	F	L	

FIGURE 2B

549	558	567	576	585	594
AAG CAG AAC	ACT GCT GGG	AGT CCT AAA	ACC TGC GAC	AGG AAG AAA	GAT GAA AAC
---	---	---	---	---	---
K Q N	T A G	S P K	T C D	R K K	D E N
603	612	621	630	639	648
TAC AGA AGC	CTC CCG CGG	GAT ACT AGT	AAC TGG TCT	AAC CAA TTT	CAG AGA GAC
---	---	---	---	---	---
Y R S	L P R	D T S	N W S	N Q F	Q R D
657	666	675	684	693	702
AAT GCT CGC	TCG TCT CTG	AGT GCC AGT	CAC CCA ATG	GTG GGC AAG	TGG CTG GAG
---	---	---	---	---	---
N A R	S S L	S A S	H P M	V G K	W L E
711	720	729	738	747	756
AAA CAA GAA	CAG GAT GAG	GAT GGG ACA	GAA GAG GAT	AAC AGT CGT	GTT GAA CCT
---	---	---	---	---	---
K Q E	Q D D	E D G	T E E	D N S	R V E
765	774	783	792	801	810
GTT GGA CAT	GCT GAC ACG	GGT TTG GAG	CAT ATA CCC	AAC TTT TCT	CTG GAT GAT
---	---	---	---	---	---
V G H	A D T	G G L	E H I	P N F	S L D
---	---	---	---	---	---

FIGURE 2C

819	ATG	GTA	AAG	CTC	GTA	GAA	GTC	CCC	AAC	GAT	GGA	GGG	CCT	CTG	GGA	ATC	CAT	GTA
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	M	V	K	L	V	E	V	P	N	D	G	G	P	L	G	I	H	V
873	GTG	CCT	TTC	AGT	GCT	CGA	GGC	GGC	AGA	ACC	CTG	GGG	TTA	TTA	GTA	AAA	CGA	TTG
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	V	P	F	S	A	R	G	G	R	T	L	G	L	L	V	K	R	L
927	GAG	AAA	GGT	GGT	AAA	GCT	GAA	CAT	GAA	AAT	CTT	TTT	CGT	GAG	AAT	GAT	TGC	ATT
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	E	K	G	G	K	A	E	H	E	N	L	F	R	E	N	D	C	I
981	GTC	AGG	ATT	AAT	GAT	GGC	GAC	CTT	CGA	AAT	AGA	AGA	TTT	GAA	CAA	GCA	CAA	CAT
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	V	R	I	N	D	G	D	L	R	N	R	R	F	E	Q	A	Q	H
1035	ATG	TTT	CGC	CAA	GCC	ATG	CGT	ACA	CCC	ATC	ATT	TGG	TTC	CAT	GTG	GTG	CCT	GCA
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	M	F	R	Q	A	M	R	T	P	I	I	W	F	H	V	V	P	A

FIGURE 2D

1089	1098	1107	1116	1125	1134
GCA AAT AAA GAG CAG TAT GAA CAA CTA TCC CAA AGT GAG AAG AAC AAT TAC TAT					
---	---	---	---	---	---
A N K E Q Y E Q L S Q S E K N Y Y					
1143	1152	1161	1170	1179	1188
TCA AGC CGT TTT AGC CCT GAC AGC CAG TAT ATT GAC AAC AGG AGT GTG AAC AGT					
---	---	---	---	---	---
S S R F S P D S Q Y I D N R S V N S					
1197	1206	1215	1224	1233	1242
GCA GGG CTT CAC ACG GTG CAG AGA GCA CCC CGA CTG AAC CAC CCG CCT GAG CAG					
---	---	---	---	---	---
A G L H T V Q R A P R L N H P P E Q					
1251	1260	1269	1278	1287	1296
ATA GAC TCT CAC TCA AGA CTA CCT CAT AGC GCA CAC CCC TCG GGA AAA CCA CCA					
---	---	---	---	---	---
I D S H S R L P H S A H P S G K P P					
1305	1314	1323	1332	1341	1350
TCC GCT CCA GCC TCG GCA CCT CAG AAT GTA TTT AGT ACG ACT GTA AGC AGT GGT					
---	---	---	---	---	---
S A P A S A P Q N V F S T T V S S G					

FIGURE 2E

1359	1368	1377	1386	1395	1404
TAT AAC ACC AAA ATA GGC AAG AGG CTT AAT ATC CAG CTT AAG AAA GGT ACA					
---	---	---	---	---	---
Y N T K K I G K R L N I Q L K K G T					
1413	1422	1431	1440	1449	1458
GAA GGT TTG GGA TTC AGC ATC ACT TCC AGA GAT GTA ACA ATA GGT GGC TCA GCT					
---	---	---	---	---	---
E G L G G F S I T S R D V T I G G S A					
1467	1476	1485	1494	1503	1512
CCA ATC TAT GTG AAA AAC ATT CTC CCC CGG GGG GCG GCC ATT CAG GAT GGC CGA					
---	---	---	---	---	---
P I Y V K N I L P R G A A I Q D G R					
1521	1530	1539	1548	1557	1566
CTT AAG GCA GGA GAC AGA CTT ATA GAG GTA AAT GGA GTA GTA GAT TTA GTG GGC AAA					
---	---	---	---	---	---
L K A G D R L I E V N G V D L V G K					
1575	1584	1593	1602	1611	1620
TCC CAA GAG GAA GTT GTT TCG CTG TTG AGA AGC ACC AAG ATG GAA GGA ACT GTG					
---	---	---	---	---	---
S Q E E V V S L L R S T K M E G T V					

FIGURE 2F

1629	1638	1647	1656	1665	1674
AGC CTT CTG GTC TTT CGC CAG GAA GAC GCC TTC CAC CCA AGG GAA CTG AAT GCA					
---	---	---	---	---	---
S L L V F R Q E D A F H P R E L N A					
1683	1692	1701	1710	1719	1728
GAG CCA AGC CAG ATG CAG ATT CCA AAA GAA ACG AAA GCA GAA GAT GAG GAT ATT					
---	---	---	---	---	---
E P S Q M Q I P K E T K A E D E D I					
1737	1746	1755	1764	1773	1782
GTT CTT ACA CCT GAT GGC ACC AGG GAA TTT CTG ACA TTT GAA GTC CCA CTT AAT					
---	---	---	---	---	---
V L T P D G T R E F L T F E V P L N					
1791	1800	1809	1818	1827	1836
GAT TCA GGA TCT GCA GGC CTT GGT GTC AGT GTC AAA GGT AAC CGG TCA AAA GAG					
---	---	---	---	---	---
D S G S A G L G V S V K G N R S K E					
1845	1854	1863	1872	1881	1890
AAC CAC GCA GAT TTG GGA ATC TTT GTC AAG TCC ATT ATT ATT GGA GGA GCA GCA					
---	---	---	---	---	---
N H A D L G I F V K S I I N G G A A					

FIGURE 2G

1899	1908	1917	1926	1935	1944
TCT AAA GAT GGA AGG CTT CGG GTG AAT GAT CAA CTG ATA GCA GTA AAT GGA GAA					
---	---	---	---	---	---
S K D G R L R V N D Q L I A V N G E					
1953	1962	1971	1980	1989	1998
TCC CTG TTG GGC AAG ACA AAC CAA GAT GCC ATG GAA ACC CTA AGA AGG TCT ATG					
---	---	---	---	---	---
S L L G K T N Q D A M E T L R S M					
2007	2016	2025	2034	2043	2052
TCT ACT GAA GGC AAT AAA CGA GGA ATG ATC CAG CTT ATT GTT GCA AGG AGA ATA					
---	---	---	---	---	---
S T E G N K R G M I Q L I V A R R I					
2061	2070	2079	2088	2097	2106
AGC AAG TGC AAT GAG CTG AAG TCA CCT GGG AGC CCC CCT GGA CCT GAG CTG CCC					
---	---	---	---	---	---
S K C N E L K S P G S P P G P E L P					
2115	2124	2133	2142	2151	2160
ATT GAA ACA GCG TTG GAT GAT AGA GAA CGA CGA AGA ATT TCC CAT TCC CTC TAC AGT					
---	---	---	---	---	---
I E T A L D D R E R R I S H S L Y S					

FIGURE 2H

2169	2178	2187	2196	2205	2214
GGG ATT GAG GGG CTT GAT GAA TCG CCC AGC AGA AAT GCT GCC CTC AGT AGG ATA					
---	---	---	---	---	---
G I E G L D E S P S R N A A L S R I					
2223	2232	2241	2250	2259	2268
ATG GGT GAG TCA GGT AAA TAC CAG CTG TCC CCT ACA GTG AAT ATG CCC CAA GAT					
---	---	---	---	---	---
M G E S G K Y Q L S P T V N M P Q D					
2277	2286	2295	2304	2313	2322
GAC ACT GTC ATT ATA GAA GAT GAC AGG TTG CCA GTG CTT CCT CCA CAT CTC TCT					
---	---	---	---	---	---
D T V I I E D D R L P V L P P H L S					
2331	2340	2349	2358	2367	2376
GAC CAG TCC TCT TCC AGC TCC CAT GAT GAT GTG GGG TTT GTG ACG GCA GAT GCT					
---	---	---	---	---	---
D Q S S S S H D D V G F V T A D A					
2385	2394	2403	2412	2421	2430
GGT ACT TGG GCC AAG GCT GCA ATC AGT GAT TCA GCC GAC TGC TCT TTG AGT CCA					
---	---	---	---	---	---
G T W A K A A I S D S A D C S L S P					

FIGURE 2I

2439	GAT GTT GAT CCA GTT CTT GCT TTT CAA CGA GAA GGA TTT GGA CGT CAG AGT ATG	2448	2457	2466	2475	2484
---	---	---	---	---	---	---
D V D P V L A F Q R E G F G R Q S M						
2493	TCA GAA AAA CGC ACA AAG CAA TTT TCA GAT GCC AGT CAA TTG GAT TTC GTT AAA	2502	2511	2520	2529	2538
---	---	---	---	---	---	---
S E K R T K Q F S D A S Q L D F V K						
2547	ACA CGA AAA TCA AAA AGC ATG GAT TTA GGT ATA GCT GAC GAG ACT AAA CTC AAT	2556	2565	2574	2583	2592
---	---	---	---	---	---	---
T R K S K S M D L G I A D E T K L N						
2601	ACA GTG GAT GAC CAG AAA GCA GGT TCT CCC AGC AGA GAT GTG GGT CCT TCC CTG	2610	2619	2628	2637	2646
---	---	---	---	---	---	---
T V D D Q K A G S P S R D V G P S L						
2655	GGT CTG AAG AAG TCA AGC TCG TTG GAG AGT CTG CAG ACC GCA GTT GCC GAG GTG	2664	2673	2682	2691	2700
---	---	---	---	---	---	---
G L K K S S S L E S L L Q T A V A E V						

FIGURE 2J

2709	2718	2727	2736	2745	2754
ACT TTG AAT GGG GAT ATT CCT TTC CAT CGT CCA CGG CCG CGG ATA ATC AGA GGC					
---	---	---	---	---	---
T L N G D I P F H R P R P R I I R G					
2763	2772	2781	2790	2799	2808
AGG GGA TGC AAT GAG AGC TTC AGA GCT GCC ATC GAC AAA TCT TAT GAT AAA CCC					
---	---	---	---	---	---
R G C N E S F R A A I D K S Y D K P					
2817	2826	2835	2844	2853	2862
GCG GTA GAT GAT GAT GAA GGC ATG GAG ACC TTG GAA GAA GAC ACA GAA GAA					
---	---	---	---	---	---
A V D D D D E G M E T L E E D T E E					
2871	2880	2889	2898	2907	2916
AGT TCA AGA TCA GGG AGA GAG TCT GTA TCC ACA GCC AGT GAT CAG CCT TCC CAC					
---	---	---	---	---	---
S S R S G R E S V S T A S D Q P S H					
2925	2934	2943	2952	2961	2970
TCT CTG GAG AGA CAA ATG AAT GGA AAC CAA GAG AAA GGT GAT AAG ACT GAT AGA					
---	---	---	---	---	---
S L E R Q Q M N G N Q E K G D K T D R					

FIGURE 2K

2979	2988	2997	3006	3015	3024
AAA AAG GAT AAA ACT GGA AAA AAG AAG AAA GAT AGA GAT AAG GAG AAG GAT					
---	---	---	---	---	---
K K D K T G K K E K K K D R D K E K D					
3033	3042	3051	3060	3069	3078
AAA ATG AAA GCC AAG AAG GGA ATG CTG AAG GGC TTG GGA GAC ATG TTC AGG TTT					
---	---	---	---	---	---
K M K A K K G M L K G L G D M F R F					
3087	3096	3105	3114	3123	3132
GGC AAA CAT CGA AAA GAT GAC AAG ATT GAG AAA ACG GGT AAA ATA AAA ATA CAG					
---	---	---	---	---	---
G K H R K D D K I E K T G K I K I Q					
3141	3150	3159	3168	3177	3186
GAA TCC TTT ACA TCA GAA GAG GAG AGG ATA CGA ATG AAG CAG GAG CAG AGG					
---	---	---	---	---	---
E S F T S E E E R I R M K Q E Q E R					
3195	3204	3213	3222	3231	3240
ATT CAA GCC AAA ACT CGA GAA TTT AGG GAA CGA CAA GCT CGA GAG CGT GAC TAT					
---	---	---	---	---	---
I Q A K T R E F R E R Q A R E R D Y					

FIGURE 2L

3249	3258	3267	3276	3285	3294
GCT GAA ATT CAA GAT TTT CAT CGG ACA TTT GGC TGT GAT GAT GAG TTA ATG TAT					
---	---	---	---	---	---
A E I Q D F H R T F G C D D E L M Y					
3303	3312	3321	3330	3339	3348
GGG GGA GTT TCT TCT TAT GAA GGT TCC ATG GCT CTC AAC GCT AGA CCT CAG AGC					
---	---	---	---	---	---
G G V S S Y E G S M A L N A R P Q S					
3357	3366	3375	3384	3393	3402
CCA CGA GAA GGG CAT ATG ATG GAT GCT TTG TAT GCC CAA GTC AAG AAG CCG CGG					
---	---	---	---	---	---
P R E G H M M D A L Y A Q V K K P R					
3411	3420	3429	3438	3447	3456
AAT TCC AAA CCC TCA CCT GTA GAC AGT AAC AGA TCA ACT CCT AGC AAT CAT GAT					
---	---	---	---	---	---
N S K P S P V D S N R S T P S N H D					
3465	3474	3483	3492	3501	3510
CGG ATA CAG CGT CTG AGG CAA GAA TTT CAG CAA AAG AAG CAA GAT GAA GAT GTA					
---	---	---	---	---	---
R I Q R L R Q E F Q Q A K Q D E D V					

FIGURE 2M

3519	3528	3537	3546	3555	3564
GAA GAT CGT CGG CGG ACC TAT AGT TTT GAG CAA CCC TGG CCG AAC GCA CGG CCG					
---	---	---	---	---	---
E D R R R T Y S F E Q P W P N A R P					
3573	3582	3591	3600	3609	3618
GCG ACG CAG AGC GGG CGA CAC TCG GTG TCC GTG GAG GTG CAG ATG CAG CGG CAG					
---	---	---	---	---	---
A T Q S G R H S V S V E V Q M Q R Q					
3627	3636	3645	3654	3663	3672
CGG CAG GAG GAG CGC GAG AGC TCC CAG CAG GCC CAG CGC CAG TAC AGC TCT CTG					
---	---	---	---	---	---
R Q E E R E S S Q Q A Q R Q Y S S L					
3681	3690	3699	3708	3717	3726
CCT CGG CAA AGC AGG AAA AAT GCC AGC TCG GTC TCC CAG GAC TCT TGG GAG CAG					
---	---	---	---	---	---
P R Q S R K N A S S V S Q D S W E Q					
3735	3744	3753	3762	3771	3780
AAC TAC TCC CCT GGG GAA GGC TTC CAG AGT GCC AAA GAG AAC CCC AGG TAC TCC					
---	---	---	---	---	---
N Y S P G E G G F Q S A K E N P R Y S					

FIGURE 2N

3789	3798	3807	3816	3825	3834
AGC TAC CAA GGC TCC AGG AAC GGC TAC CTG GGA GGA CAT GGC TTC AAC GCC AGG					
---	---	---	---	---	---
S Y Q G S R N G Y L G G H G F N A R					
3843	3852	3861	3870	3879	3888
GTC ATG CTG GAA ACT CAG GAG CTC CTT CGC CAG GAA CAG AGG CGG AAG GAG CAG					
---	---	---	---	---	---
V M L E T Q E L L R Q E Q R R K E Q					
3897	3906	3915	3924	3933	3942
CAG ATG AAG AAG CAG CCT CCT TCC GAG GGG CCC AGC AAC TAT GAC TCG TAT AAG					
---	---	---	---	---	---
Q M K K Q P P S E G P S N Y D S Y K					
3951	3960	3969	3978	3987	3996
AAA GTC CAG GAC CCC AGT TAC GCC CCT CCC AAG GGG CCC TTC CGG CAA GAT GTG					
---	---	---	---	---	---
K V Q Q D P S Y A P P K G P F R Q D V					
4005	4014	4023	4032	4041	4050
CCC CCC TCC CCT TCT CAG GTT GCG AGG CTG AAC AGA CTT CAG ACT CCT GAG AAA					
---	---	---	---	---	---
P P S P S Q V A R L N R L Q T P E K					

FIGURE 20

4059 4068 4077 4086 4095 4104
GGG AGG CCC TTC TAT TCC TGA GCA CGC AAA TAA CGG ATG CTT CAT GTC GCG CAA
--- --- --- --- ---
G R P F Y S
4113 4122 4131 4140 4149 4158
TAA AAG ACA TTT TCC TAT GAA GAC TTG TAT TTT GGG AGT TTT TTT AAA ACC TCG
4167 4176 4185 4194 4203 4212
ATG GTA CTA TGG AGT ATT TCT GTT GTT GCC TTT AAG CGG TGT AGG
4221 4230 4239 4248 4257 4266
CAA AGA AAT GGA AGG CCT TAA TGT CTT TGC CAC TAT GTC TCA AGT GTC TGT TTC
4275 4284 4293 4302 4311 4320
ATG GAA GGA TTT CCC ACC CTG TGA CAA TCA TCT GTT TGA GGT GTT CAT ATG CTC
4329 4338 4347 4356 4365 4374
TGC GCC TCT CCA CAG TAC CAG GAA TCT CGG CCC TAC TCA TGA GTT GTC CGC GGC
4383 4392 4401 4410 4419 4428
TTG GTT GTA ACA TCC CTG CAC CAC TTG CAG TGA CAA ATT CAC CTG AAG TGG AGG
4437 4446 4455 4464 4473 4482
ATG ACG TGC GGC CCT GTT TCT CCC TCT AAG TTC TCT TAG CTA TGG GAT GAC ATC
4491 4500 4509 4518 4527 4536
TTA GTC TCT GGT GGA GGA AAA GTG GGC GAC ATA CAC CAA AAA TTG GGG CTT TCT

FIGURE 2P

4545	4554	4563	4572	4581	4590
GGT ACT TCA CAG CAC AGC CAT TTG TCG TAC TTT GTC ATC ACT GTG GTT TTC TCT					
4599	4608	4617	4626	4635	4644
TTC CTT TCT CAG CTC TTT GTG ACG GGA GAG TCG GTC ATC CTA TTA CAG AAG CTA					
4653	4662	4671	4680	4689	4698
AGC CAT AGT CCA ACA TTG TTT GGT CAC CAT GGG GGT CCT TTT GTA ACT GCC TTA					
4707	4716	4725	4734	4743	4752
TGA CTC AAC ATT ACC AAT AAA GTG ATG ATC CTG GTC TGC GTT TAT ACA TAC GCT					
4761	4770	4779	4788	4797	4806
TGT TCG GTC CTG TTC CTG ACA CGT GGG TTG AGT CAC CAC AGC TCT GTG TGG GGA					
4815	4824	4833	4842	4851	4860
ACG TGG GAG ACA GGA GTG GCT CCT GCC GGG GGA AGC TGG GCC TGC CAT TGG CCC					
4869	4878	4887	4896	4905	4914
TGT GTC TAT CAT GAG GGG AGA GCT AAG AAA GAA ATT CTC CTA GGA AGA GCT CAT					
4923	4932	4941	4950	4959	4968
GGC CCA GTA CAT CCT AGT AAT TAT TTT AAT TAG TTT TTG TTC TGA CAG CTT GTC					
4977	4986	4995	5004	5013	5022
AGG AAG GGC ACA GAA TGG GAC AGA GAT AAA CCA GAC AGT CAT TTT GAT CTG CTC					

FIGURE 2Q

5031	5040	5049	5058	5067	5076
TCT ACG GTT TTT CAA GTC AGA GGC AAT TGA TGC TTG TCT AAT GCA TCC ACA CAC					
5085	5094	5103	5112	5121	5130
TGC ATG TCT GAC TGG CGA TGC CAC GCT CCT AAG TAG TTC TGC CAT GAA ACA TAA					
5139	5148	5157	5166	5175	5184
AAG ACA AAG GAA AAG CCG TTA CAC ATC ACA CAG AGA ACA TTT TCG GGT CCC ACA					
5193	5202	5211	5220	5229	5238
GCG GTG GTG GCA GGA AGC TCA CTC TCG CGT CAG TAT TAG AGT GTG TGT GTG GGT					
5247	5256	5265	5274	5283	5292
CTC GGG GAT CTC GGT GGC TCC CAT CTT CCT TCA TTG TTC TGA ACA TCC TGT ATT					
5301	5310	5319	5328	5337	5346
GTA AAC CAT GGC TGG GGT GCT AAA GTG CCT GTG AAT CCC GAT GTG GAA AAA GCT					
5355	5364	5373	5382	5391	5400
GGA GGT GAA AGC TCA GCA TAC CAT GTA TTT ACT TTA AAA ACA GAA AAA AAG ACA					
5409	5418	5427	5436	5445	5454
TGT ATG GAT ATG TCT ATT TTT TTT TTA TTG GCA CAT TGT ATT TTT GTG TTG ACT					
5463	5472	5481	5490	5499	5508
TGT TTT TAG AAA TGA TGT GTC CAC ACA CGT ACC CGT GTC TCT TCT GCA TTT CTG					

FIGURE 2R

5517 TGT CAT GGT TCT GTT TCT TAA TCA CGT GCG GCG GTG TCT AAG TGG TGT TAC CAG 5562
 5571 TGT ACG CGC AGT GAC CTT GGA TGA CAG TGG CTC TTT CTC ACA GCC TCC CCT GAG 5616
 5625 CTG TGA GAA ACA GCT TTC TCT GTA CAT ATG CAA CTC CTA ATA AAA GGC ATA TTT 5670
 5679 CTT CCT GTT AAA AAA AAA A 3'

FIGURE 2S

1	M	K	V	T	V	C	F	G	R	T	G	I	V	V	P	C	K	E	G	Q	L	R	V	G	E	L	T	Q	Q	A	1555118
1	M	K	V	T	V	C	F	G	R	T	R	V	V	V	P	C	G	D	G	H	M	K	V	F	S	L	I	Q	Q	A	2582063
1	M	K	V	T	V	C	F	G	R	T	R	V	V	V	P	C	G	D	G	R	M	K	V	F	S	L	I	Q	Q	A	g3868778
1	M	K	V	T	V	C	F	G	R	T	R	V	V	V	P	C	G	D	G	H	M	K	V	F	S	L	I	Q	Q	A	g8037915
31	L	Q	R	Y	L	K	T	R	E	K	G	P	G	Y	W	V	K	I	H	H	L	E	Y	T	D	G	G	I	L	D	1555118
31	V	T	R	Y	R	K	A	I	A	K	D	P	N	Y	W	I	Q	V	H	R	L	E	H	G	D	G	I	L	D	2582063	
31	V	T	R	Y	R	K	A	V	A	K	D	P	N	Y	W	I	Q	V	H	R	L	E	H	G	D	G	I	L	D	g3868778	
31	V	T	R	Y	R	K	A	I	A	K	D	P	N	Y	W	I	Q	V	H	R	L	E	H	G	D	G	I	L	D	g8037915	
61	P	D	D	V	L	A	D	V	V	E	D	K	D	K	L	I	A	V	F	E	Q	E	P	L	H	K	I	E	S	1555118	
61	L	D	D	I	L	C	D	V	A	D	D	K	D	R	L	V	A	V	F	D	E	Q	D	P	H	H	G	D	G	2582063	
61	L	D	D	I	L	C	D	V	A	D	D	K	D	R	L	V	A	V	F	D	E	Q	D	P	H	H	G	D	G	g3868778	
61	L	D	D	I	L	C	D	V	A	D	D	K	D	R	L	V	A	V	F	D	E	Q	D	P	H	H	G	D	G	g8037915	
91	P	S	G	N	P	A	D	R	Q	S	P	D	A	F	E	T	E	V	A	A	Q	-	L	A	A	F	K	P	-	-	1555118
91	T	S	A	S	S	T	G	T	Q	S	P	E	I	F	G	S	E	L	G	T	N	N	V	S	A	F	Q	P	Y	Q	2582063
91	T	S	A	S	S	T	G	T	Q	S	P	E	I	F	G	S	E	L	G	T	N	N	V	S	A	F	R	P	Y	Q	g3868778
91	T	S	A	S	S	T	G	T	Q	S	P	E	I	F	G	S	E	L	G	T	N	N	V	S	A	F	Q	P	Y	Q	g8037915
118	I	G	G	E	I	E	V	T	P	S	A	L	K	L	G	T	P	L	L	V	R	R	S	S	D	P	V	-	-	-	1555118
121	A	T	S	E	I	E	V	T	P	S	V	L	R	A	N	M	P	L	H	V	R	R	S	S	D	P	A	L	I	G	2582063
121	T	T	S	E	I	E	V	T	P	S	V	L	R	A	N	M	P	L	H	V	R	R	S	S	D	P	A	L	T	G	g3868778
121	A	T	S	E	I	E	V	T	P	S	V	L	R	A	N	M	P	L	H	V	R	R	S	S	D	P	A	L	I	G	g8037915

FIGURE 3A

145	-	-	-	-	-	-	-	P	G	P	A	D	T	Q	P	S	A	S	H	P	G	Q	S	L	1555118						
151	L	S	T	S	V	S	D	S	N	F	S	S	E	P	S	R	K	N	P	T	R	W	S	T	A	G	F	L	2582063		
151	L	S	T	S	V	S	D	N	N	F	S	S	E	P	S	R	K	N	P	T	R	W	S	T	A	G	F	L	g3868778		
151	L	S	T	S	V	S	D	S	N	F	S	S	E	P	S	R	K	N	P	T	R	W	S	T	A	G	F	L	g8037915		
164	K	L	V	V	P	D	S	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1555118			
181	K	Q	N	T	A	G	S	P	K	T	C	D	R	K	K	D	E	N	Y	R	S	L	P	R	D	T	S	N	W	S	2582063
181	K	Q	N	T	T	G	S	P	K	T	C	D	R	K	K	D	E	N	Y	R	S	L	P	R	D	P	S	S	W	S	g3868778
181	K	Q	N	T	A	G	S	P	K	T	C	D	R	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g8037915
172	-	-	-	Q	N	L	E	D	R	E	V	L	N	G	V	Q	T	E	L	-	-	L	T	S	P	R	T	K	D	1555118	
211	N	Q	F	Q	R	D	N	A	R	S	S	L	S	A	S	H	P	M	V	G	K	W	L	E	K	Q	E	Q	D	E	2582063
211	N	Q	F	Q	R	D	N	A	R	S	S	L	S	A	S	H	P	M	V	D	R	W	L	E	K	Q	E	Q	D	E	g3868778
195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g8037915
196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1555118
241	D	G	T	E	E	D	N	S	R	V	E	P	V	G	H	A	D	T	G	L	E	H	I	P	N	F	S	L	D	D	2582063
241	E	G	T	E	E	D	S	S	R	V	E	P	V	G	H	A	D	T	G	L	E	N	M	P	N	F	S	L	D	D	g3868778
197	D	G	T	E	E	D	N	S	R	V	E	P	V	G	H	A	D	T	G	L	E	H	I	P	N	F	S	L	D	D	g8037915
200	M	T	R	T	V	E	I	S	G	E	G	G	P	L	G	I	H	V	V	P	F	F	S	S	L	S	G	R	I	L	1555118
271	M	V	K	L	V	E	V	P	N	D	G	G	P	L	G	I	H	V	V	P	F	-	S	A	R	G	G	R	T	L	2582063
271	M	V	K	L	V	Q	V	P	N	D	G	G	P	L	G	I	H	V	V	P	F	-	S	A	R	G	G	R	T	L	g3868778
227	M	V	K	L	V	E	V	P	N	D	G	G	P	L	G	I	H	V	V	P	F	-	S	A	R	G	G	R	T	L	g8037915

FIGURE 3B

230	G	L	F	I	R	G	I	E	D	N	S	R	S	K	R	E	G	L	F	H	E	N	E	C	I	V	K	I	N	N	1555118
300	G	L	L	V	K	R	L	E	K	G	G	K	A	E	H	E	N	L	F	R	E	N	D	C	I	V	R	I	N	D	2582063
300	G	L	L	V	K	R	L	E	K	G	G	K	A	E	Q	E	N	L	F	H	E	N	D	C	I	V	R	I	N	D	g3868778
256	G	L	L	V	K	R	L	E	K	G	G	K	A	E	H	E	N	L	F	R	E	N	D	C	I	V	R	I	N	D	g8037915
260	V	D	L	V	D	K	T	F	A	Q	A	Q	D	V	F	R	Q	A	M	K	S	P	S	V	L	L	H	V	L	P	1555118
330	G	D	L	R	N	R	R	F	E	Q	A	Q	H	M	F	R	Q	A	M	R	T	P	I	I	W	F	H	V	V	P	2582063
330	G	D	L	R	N	R	R	F	E	Q	A	Q	H	M	F	R	Q	A	M	R	A	R	V	I	W	F	H	V	V	P	g3868778
286	G	D	L	R	N	R	R	F	E	Q	A	Q	H	M	F	R	Q	A	M	R	T	P	I	I	W	F	H	V	V	P	g8037915
290	P	Q	N	R	E	Q	Y	E	K	S	V	I	G	S	L	N	I	F	G	N	N	-	-	-	D	G	V	L	K	1555118	
360	A	A	N	K	E	Q	Y	E	Q	L	S	Q	S	E	K	N	N	Y	Y	S	S	R	F	S	P	D	S	Q	Y	I	2582063
360	A	A	N	K	E	Q	Y	E	Q	L	S	Q	R	E	M	N	N	Y	S	P	G	R	F	S	P	D	S	H	C	V	g3868778
316	A	A	N	K	E	Q	Y	E	Q	L	S	Q	S	E	K	N	N	Y	Y	S	S	R	F	S	P	D	S	Q	Y	I	g8037915
316	T	K	V	P	P	P	V	H	G	K	S	G	L	K	T	A	N	L	T	G	T	D	S	P	E	T	D	A	S	A	1555118
390	D	N	R	S	V	N	S	A	G	L	H	T	V	Q	R	A	P	R	L	N	H	P	P	E	Q	I	D	S	H	S	2582063
390	A	N	R	S	V	A	N	N	A	P	Q	A	L	P	R	A	P	R	L	S	Q	P	P	E	Q	L	D	A	H	P	g3868778
346	D	N	R	S	V	N	S	A	G	L	H	T	V	Q	R	A	P	R	L	N	H	P	P	E	Q	I	D	S	H	S	g8037915
346	S	L	Q	Q	N	K	S	P	R	V	P	R	L	G	G	K	P	S	P	S	-	-	L	S	P	L	M	G	-	1555118	
420	R	L	P	H	S	A	H	P	S	G	K	P	P	S	A	P	A	S	A	P	Q	N	V	F	S	T	T	V	S	S	2582063
420	R	L	P	H	S	A	H	A	S	T	K	P	P	T	A	P	A	L	A	P	P	N	V	L	S	T	S	V	G	S	g3868778
376	R	L	P	H	S	A	H	P	S	G	K	P	P	S	A	P	A	S	A	P	Q	N	V	F	S	T	T	V	S	S	g8037915

FIGURE 3C

373	-	F	G	S	N	K	N	A	K	K	I	K	I	D	L	K	K	G	P	E	G	L	G	F	T	V	V	T	R	D	1555118
450	G	Y	N	T	K	K	I	G	K	R	L	N	I	Q	L	K	K	G	T	E	G	L	G	F	S	I	T	S	R	D	2582063
450	V	Y	N	T	K	R	V	G	K	R	L	N	I	Q	L	K	K	G	T	E	G	L	G	F	S	I	T	S	R	D	g3868778
406	G	Y	N	T	K	K	I	G	K	R	L	N	I	Q	L	K	K	G	T	E	G	L	G	F	S	I	T	S	R	D	g8037915
402	S	S	I	H	G	P	G	P	I	F	V	K	N	I	L	P	K	G	A	A	I	K	D	G	R	L	Q	S	G	D	1555118
480	V	T	I	G	G	S	A	P	I	Y	V	K	N	I	L	P	R	G	A	A	I	Q	D	G	R	L	K	A	G	D	2582063
480	V	T	I	G	G	S	A	P	I	Y	V	K	N	I	L	P	R	G	A	A	I	Q	D	G	R	L	K	A	G	D	g3868778
436	V	T	I	G	G	S	A	P	I	Y	V	K	N	I	L	P	R	G	A	A	I	Q	D	G	R	L	K	A	G	D	g8037915
432	R	I	L	E	V	N	G	R	D	V	T	G	R	T	Q	E	E	L	V	A	M	L	R	S	T	K	Q	G	E	T	1555118
510	R	L	I	E	V	N	G	V	D	L	V	G	K	S	Q	E	E	V	V	S	L	L	R	S	T	K	M	E	G	T	2582063
510	R	L	I	E	V	N	G	V	D	L	A	G	K	S	Q	E	E	V	V	S	L	L	R	S	T	K	M	E	G	T	g3868778
466	R	L	I	E	V	N	G	V	D	L	V	G	K	S	Q	E	E	V	V	S	L	L	R	S	T	K	M	E	G	T	g8037915
462	A	S	L	V	I	A	R	Q	E	G	H	F	L	P	R	E	L	K	G	E	P	D	C	C	A	L	S	L	E	T	1555118
540	V	S	L	L	V	F	R	Q	E	D	A	F	H	P	R	E	L	N	A	E	P	S	Q	M	Q	I	P	K	E	T	2582063
540	V	S	L	L	V	F	R	Q	E	E	A	F	H	P	R	E	M	N	A	E	P	S	Q	M	Q	S	P	K	E	T	g3868778
496	V	S	L	L	V	F	R	Q	E	D	A	F	H	P	R	E	L	-	-	-	-	-	-	-	-	-	-	-	-	-	g8037915
492	S	E	Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L	T	F	E	I	P	L	N	D	S	G	S	A	1555118
570	K	A	E	D	E	D	I	V	L	T	P	D	G	T	R	E	F	L	T	F	E	V	P	L	N	D	S	G	S	A	2582063
570	K	A	E	D	E	D	I	V	L	T	P	D	G	T	R	E	F	L	T	F	E	V	P	L	N	D	S	G	S	A	g3868778
513	K	A	E	D	E	D	I	V	L	T	P	D	G	T	R	E	F	L	T	F	E	V	P	L	N	D	S	G	S	A	g8037915

FIGURE 3D

508	G	L	G	V	S	L	K	G	N	K	S	R	E	T	G	T	D	L	G	I	F	I	K	S	I	I	H	G	G	A	1555118
600	G	L	G	V	S	V	K	G	N	R	S	K	E	N	H	A	D	L	G	I	F	V	K	S	I	I	N	G	G	A	2582063
600	G	L	G	V	S	V	K	G	N	R	S	K	E	N	H	A	D	L	G	I	F	V	K	S	I	I	N	G	G	A	g3868778
543	G	L	G	V	S	V	K	G	N	R	S	K	E	N	H	A	D	L	G	I	F	V	K	S	I	I	N	G	G	A	g8037915
538	A	F	K	D	G	R	L	R	M	N	D	Q	L	I	A	V	N	G	E	S	L	L	G	K	S	N	H	E	A	M	1555118
630	A	S	K	D	G	R	L	R	V	N	D	Q	L	I	A	V	N	G	E	S	L	L	G	K	T	N	Q	D	A	M	2582063
630	A	S	K	D	G	R	L	R	V	N	D	Q	L	I	A	V	N	G	E	S	L	L	G	K	A	N	Q	E	A	M	g3868778
573	A	S	K	D	G	R	L	R	V	N	D	Q	L	I	A	V	N	G	E	S	L	L	G	K	T	N	Q	D	A	M	g8037915
568	E	T	L	R	R	P	M	S	M	E	G	N	I	R	G	M	I	Q	L	V	I	L	R	R	-	-	-	-	-	-	1555118
660	E	T	L	R	R	S	M	S	T	E	G	N	K	R	G	M	I	Q	L	I	V	A	R	R	I	S	K	C	N	E	2582063
660	E	T	L	R	R	S	M	S	T	E	G	N	K	R	G	M	I	Q	L	I	V	A	R	R	I	S	R	C	N	E	g3868778
603	E	T	L	R	R	S	M	S	T	E	G	N	K	R	G	M	I	Q	L	I	V	A	R	R	I	S	K	C	N	E	g8037915
592	-	-	-	-	-	-	-	-	-	P	E	R	P	M	E	D	P	-	A	E	C	G	A	F	S	K	P	C	F	E	1555118
690	L	K	S	P	G	S	P	P	G	P	E	L	P	I	E	T	A	L	D	D	R	E	R	R	I	S	H	S	L	Y	2582063
690	L	R	S	P	G	S	P	A	A	P	E	L	P	I	E	T	E	L	D	D	R	E	R	R	I	S	H	S	L	Y	g3868778
633	L	K	S	P	G	S	P	P	G	P	E	L	P	I	E	T	A	L	D	D	R	E	R	R	I	S	H	S	L	Y	g8037915
612	N	C	Q	N	A	V	T	S	R	R	N	D	N	S	I	L	H	P	L	G	T	C	S	P	Q	D	K	Q	K	1555118	
720	S	G	I	E	G	L	D	E	S	P	S	R	N	A	A	L	S	R	I	M	G	E	S	G	K	Y	Q	L	S	P	2582063
720	S	G	I	E	G	L	D	E	S	P	T	R	N	A	A	L	S	R	I	M	G	E	S	G	K	C	Q	L	S	P	g3868778
663	S	G	I	E	G	L	D	E	S	P	S	R	N	A	A	L	S	R	I	M	G	-	-	-	K	Y	Q	L	S	P	g8037915

FIGURE 3E

642	G	L	L	L	P	N	D	G	W	A	E	S	E	-	-	-	-	-	-	V	P	P	-	-	-	-	-	S	P	1555118		
750	T	V	N	M	P	Q	D	D	T	V	I	I	E	D	D	R	L	P	V	L	P	P	H	L	S	D	Q	S	S	S	2582063	
750	T	V	N	M	P	H	D	D	T	V	M	I	E	D	D	R	L	P	V	L	P	P	H	L	S	D	Q	S	S	S	g3868778	
690	T	V	N	M	P	Q	D	D	T	V	I	I	E	D	D	R	L	P	V	L	P	P	H	L	S	D	Q	S	S	S	g8037915	
660	T	P	H	S	A	L	G	L	G	L	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Y	S	H	S	1555118
780	S	S	H	D	D	V	G	F	V	T	A	D	A	G	T	W	A	K	A	A	I	S	D	S	A	D	C	S	L	S	2582063	
780	S	S	H	D	D	V	G	F	I	M	T	E	A	G	T	W	A	K	A	T	I	S	D	S	A	D	C	S	L	S	g3868778	
720	S	S	H	D	D	V	G	F	V	T	A	D	A	G	T	W	A	K	A	A	I	S	D	S	A	D	C	S	L	S	g8037915	
676	S	G	V	D	S	A	V	Y	F	P	D	Q	H	I	N	F	R	S	V	T	P	A	R	-	-	-	-	-	-	-	-	1555118
810	P	D	V	D	P	V	L	A	F	Q	R	E	G	F	G	R	Q	S	M	S	E	K	R	T	K	Q	F	S	D	A	2582063	
810	P	D	V	D	P	V	L	A	F	Q	R	E	G	F	G	R	Q	S	M	S	E	K	R	T	K	Q	F	S	N	A	g3868778	
750	P	D	V	D	P	V	L	A	F	Q	R	E	G	F	G	R	Q	-	-	-	-	-	-	-	-	-	-	-	-	-	g8037915	
699	-	Q	P	E	S	I	N	L	K	A	S	K	S	M	D	L	-	V	P	D	E	S	K	V	H	S	L	A	G	Q	1555118	
840	S	Q	L	D	F	V	K	T	R	K	S	K	S	M	D	L	G	I	A	D	E	T	K	L	N	T	V	D	D	Q	2582063	
840	S	Q	L	D	F	V	K	T	R	K	S	K	S	M	D	L	G	I	A	D	E	T	K	L	N	T	V	D	D	Q	g3868778	
767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I	A	D	E	T	K	L	N	T	V	D	D	Q	g8037915	
727	K	S	E	S	P	S	K	D	F	G	P	T	L	G	L	K	K	S	S	S	S	L	E	S	L	Q	T	A	V	A	E	1555118
870	K	A	G	S	P	S	R	D	V	G	P	S	L	G	L	K	K	S	S	S	S	L	E	S	L	Q	T	A	V	A	E	2582063
870	R	A	G	S	P	N	R	D	V	G	P	S	L	G	L	K	K	S	S	S	S	L	E	S	L	Q	T	A	V	A	E	g3868778
780	K	A	G	S	P	S	R	D	V	G	P	S	L	G	L	K	K	S	S	S	S	L	E	S	L	Q	T	A	V	A	E	g8037915

FIGURE 3F

757	V	R	-	K	N	D	L	P	F	H	R	P	R	P	H	M	V	R	G	R	G	C	N	E	S	F	R	A	I	1555118	
900	V	T	L	N	G	D	I	P	F	H	R	P	R	P	R	I	I	R	G	R	G	C	N	E	S	F	R	A	I	2582063	
900	V	T	L	N	G	N	I	P	F	H	R	P	R	P	R	I	I	R	G	R	G	C	N	E	S	F	R	A	I	g3868778	
810	V	T	L	N	G	D	I	P	F	H	R	P	R	P	R	I	I	R	G	R	G	C	N	E	S	F	R	A	I	g8037915	
786	D	K	S	Y	D	G	P	E	-	E	I	E	A	D	G	L	-	-	-	-	-	-	S	D	K	S	S	H	S	G	1555118
930	D	K	S	Y	D	K	P	A	V	D	D	D	D	E	G	M	E	T	L	E	E	D	T	E	E	S	S	R	S	G	2582063
930	D	K	S	Y	D	K	P	M	V	D	D	D	D	E	G	M	E	T	L	E	E	D	T	E	E	S	S	R	S	G	g3868778
840	D	K	S	Y	D	K	P	A	V	D	D	D	D	E	G	M	E	T	L	E	E	D	T	E	E	S	S	R	S	G	g8037915
809	Q	G	A	L	N	C	E	S	A	P	Q	G	N	S	E	L	E	D	M	-	-	-	-	-	-	-	-	-	-	E	1555118
960	R	E	S	V	S	T	A	S	D	Q	P	S	H	S	L	E	R	Q	M	N	G	N	Q	E	K	G	D	K	T	D	2582063
960	R	E	S	V	S	T	S	S	D	Q	P	S	Y	S	L	E	R	Q	M	N	G	D	P	E	K	R	D	K	A	E	g3868778
870	R	E	S	V	S	T	A	S	D	Q	P	S	H	S	L	E	R	Q	M	N	G	N	Q	E	K	G	D	K	T	D	g8037915
829	N	K	A	R	K	V	K	K	T	K	E	K	E	K	K	K	E	K	G	K	L	K	V	K	E	-	-	-	-	1555118	
990	R	K	K	D	K	T	G	K	E	K	K	D	R	D	K	E	K	D	K	M	K	A	K	K	G	M	L	K	G	2582063	
990	K	K	K	D	K	A	G	K	D	K	K	D	R	E	K	E	K	D	K	L	K	A	K	K	G	M	L	K	G	g3868778	
900	R	K	K	D	K	T	G	K	E	K	K	D	R	D	K	E	K	D	K	M	K	A	K	K	G	M	L	K	G	g8037915	
854	-	-	-	-	-	-	-	-	K	K	R	K	E	E	N	E	D	-	-	-	-	-	-	-	-	-	-	-	-	1555118	
1020	L	G	D	M	F	R	F	G	K	H	R	K	D	D	K	I	E	K	T	G	K	I	K	I	Q	E	S	F	T	S	2582063
1020	L	G	D	M	F	R	F	G	K	H	R	K	D	D	K	M	E	K	M	G	R	I	K	I	Q	D	S	F	T	S	g3868778
930	L	G	D	M	F	R	F	G	K	H	R	K	D	D	K	I	E	K	T	G	K	I	K	I	Q	E	S	F	T	S	g8037915

FIGURE 3G

863	- - - - -	- - - - -	- - - - -	- - - - -	P E R K I K K K G	1555118
1050	E E E I R M K Q	E E E R I Q A K T R E F R E R Q A R E R D	2582063			
1050	E E D R V R M K E	E E E R I Q A K T R E F R E R Q A R E R D	g3868778			
960	E E E R I R M K Q	E E E R I Q A K T R E F R E R Q A R E R D	g8037915			
872	F G A M - - - - -	L R Y G P - - - - -	A 1555118			
1080	Y A E I Q D F H R T F G C D D E L M Y G G V S S Y E G S M A	2582063				
1080	Y A E I Q D F H R T F G C D D E L L Y G G M S S Y D G C L A	g3868778				
990	Y A E I Q D F H R T F G C D D E L M Y G G V S S Y E G S M A	g8037915				
882	L K A K - - - - -	L V L I L S L L K K A H A - - - -	1555118			
1110	L N A R P Q S P R E G H M M D A L Y A Q V K K P R N S K P S	2582063				
1110	L N A R P Q S P R E G H L M D T L Y A Q V K K P R S S K P G	g3868778				
1020	L N A R P Q S P R E G H M M D A L Y A Q V K K P R N S K P S	g8037915				
899	- - - - -	- - - - -	1555118			
1140	P V D S N R S T P S N H D R I Q R L R Q E F Q Q A K Q D E D	2582063				
1140	- - D S N R S T P S N H D R I Q R L R Q E F Q Q A K Q D E D	g3868778				
1050	P V D S N R S T P S N H D R I Q R L R Q E F Q Q A K Q D E D	g8037915				
905	- - - - -	- - - - -	1555118			
1170	V E D R R R R T Y S F E Q P W P N A R P A T Q S G R H S V S V	2582063				
1168	V E D R R R R T Y S F E Q S W S S R P A S Q S G R H S V S V	g3868778				
1080	V E D R R R R T Y S F E Q P W P N A R P A T Q S G R H S V S V	g8037915				

FIGURE 3H

[illegible]

FIGURE 3I

934	-	-	-	-	-	-	L	S
1349	E	K	G	R	P	F	Y	S
1330	E	K	G	R	P	F	Y	S
1259	E	K	G	R	P	F	Y	S

1555118
2582063
g3868778
g8037915

FIGURE 3J